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### Display of **hierarchical** three-dimensional structures with rotating substructures

GG Robertson, J Mackinlay... - US Patent 5,295,243, 1994 - Google Patents

... US Patent Mar ... Other conventional tech- was a continuation of application Ser ... different **geometry** that includes a different collection of BAF-imprrtrwr\* nc TWU TwvKxrTnw 10 nodes and Unks- But sometimes the user needs a rela- BACKGROUND OF THE INVENTION tively sma] 1 ...

[Cited by 119](#) - [Related articles](#) - [All 2 versions](#)

### Scanning techniques using **hierarchical** set of curves

JO Drewery - US Patent 4,843,468, 1989 - Google Patents

... 6, 7 and 8 show the first, second and third 55 order to the next. ... means in a different given sequence.

I claim: \*\*\*\* 60 65 Page 19. US004843468B1 REEXAMINATION CERTIFICATE (2155th) United States Patent m mi Bi 4,843,468 Brewery [45] Certificate Issued Dec. ...

[Cited by 33](#) - [Related articles](#) - [All 2 versions](#)

### Method and apparatus for operating on the model data **structure** of an image to produce human perceptible output using a viewing operation region having explicit ...

MC Stone, KP Fishkin... - US Patent 5,618,455, 1998 - Google Patents

... Computer Graphics Proceedings, Annual Conference **Series**, Kai's Power Tools for Windows (v. 2.0), Data Sources ... Copending, concurrently filed, commonly assigned US **patent** applications Ser. ... It is to be appreciated that the teachings of this application extends to these VORs. ...

[Cited by 26](#) - [Related articles](#) - [All 2 versions](#)

### Image having a **hierarchical** structure

JA Munro... - US Patent App. 09/757,741, 2001 - Google Patents

... PIXML specifi- cation 1.0", as it appears in the **Patent** and Trademark Office **Patent** file or ... displays and enables manipulation of multiple images through the use of a web-based application. ... The multiple-image viewer allows for images to be comprised of a **hierarchical** system of ...

[All 2 versions](#)

### Font architecture and creation tool for producing richer text

GA Hill, CB Browne, PQ Scott... - US Patent App. 09/153,077, 1998 - Google Patents

... Is then formed through the application of the complex font structures to each of a base font **outline** in the **series** of font ... distorting, replacing or compos- iting the **outline** of a font and can further include the tools for the application of morphological ... **Patent** Application Publication Sep ...

[Cited by 2](#) - [Related articles](#) - [All 4 versions](#)

### Copyright Protection of Computer Program **Structure**

DS Karjala - Brooklyn Law Review, 1998 - papers.ssrn.com

... to a complex programming problem] can take the form of a flowchart, which will break down the solution into a **series** of smaller units ... Were we to permit an author to **claim** copy- right protection for those elements of the work that should be the province of **patent** law, we ...

[Cited by 25](#) - [Related articles](#) - [BL Direct](#) - [All 4 versions](#)

### Method for generating exposure data for lithographic apparatus

E Murakami, H Higurashi, S Hara... - US Patent ..., 2000 - Google Patents

... 18, 1998 [30] Foreign Application Priority Data Mar ... US Patent 6,047,116 Apr ... OVERLAP DETECTION "V-S024 ARRAY PITCH DISCRIMINATOR""S025 CELL RECONSTRUCTION

**[S026 HIERARCHICAL OPTIMIZATION HIERARCHICAL GEOMETRIC OPERATION EXPOSURE ...**

[Cited by 15](#) - [Related articles](#) - [All 2 versions](#)

**Apparatus and method for implementing visual animation illustrating results of interactive editing operations**

TP Moran, P Chiu, W Van Melle, ... - US Patent 5,880,743, 1999 - Google Patents

... 24, 1997 Related US Application Data [63] Continuation of Ser. ... Page 4. US Patent Mar ... 3 44 DETERMINE MODEL **STRUCTURE** 50 IDENTIFY OBJECTS AFFECTED BY OPERATION WITH RESPECT TO STRUCTURAL MODEL 52 COMPUTE **STRUCTURE** PARAMETERS FOR ...

[Cited by 41](#) - [Related articles](#) - [All 2 versions](#)

**Avoiding oscillation in interactive animation**

JD Mackinlay ... - US Patent 5,334,908, 1995 - Google Patents

... US Patent 5,384,908 Jan ... The maintenance information can throughout this application, including the claims, indicate that the indicated level is being maintained, the "Data" refers ... To "obtain" or "produce" data is to perform any A "scene" is a **series** of one or more images that can ...

[Cited by 17](#) - [Related articles](#) - [All 2 versions](#)

**Design engine with tree and component structure**

MB Orr, NW Everett, GL Gardner, JD King, ... - US Patent ... 1999 - Google Patents

... division data **structure** is associated with a parent component in a media tree **structure** of a ... Compose For Particular Medium 18', 32' Composition- , User Interface 18' Layout 39 30' Application Program FIG. ... US Patent 5,903,902 May 11, 1999 Sheet 7 of 47 Q\_ co CO § CO CD ...

[Cited by 43](#) - [Related articles](#) - [All 2 versions](#)

**Range image shape measurement using hierarchical ordering of multiresolution mesh data for delaunay triangulation**

H Yamamoto, T Ohshima ... - US Patent 5,748,865, 1998 - Google Patents

Page 1. US005748865A United States Patent [w [ii] Patent Number: 5,748,865 [45] Date of Patent: May 5, 1998 Yamamoto et al. [54] RANGE IMAGE SHAPE MEASUREMENT USING HIERARCHICAL ORDERING OF ... 6,1994 [30] Foreign Application Priority Data Sep. ...

[Cited by 17](#) - [Related articles](#) - [All 2 versions](#)

**System for automatically aligning images to form a mosaic image**

PJ Burt, M Irani, SC Hsu, P Anandan ... - US Patent ... 1997 - Google Patents

... US Patent 5,649,032 Jul. ... Dynamic mosaics are time variant in that 50 fae application systems ... As display system 104 utilizes special mosaic storage and such, a **series** of input images (eg, video frames) are manipulation techniques that enable a system user to rapidly combined ...

[Cited by 161](#) - [Related articles](#) - [All 4 versions](#)

**Apparatus and method for geometric morphing**

H Edelsbrunner ... - US Patent 5,850,229, 1998 - Google Patents

... Graphics 13 (1994), 43-72] which is expressly  $K=(M)=$  incorporated by reference in this **patent** application. ... gets smaller, the a-complex shrinks and may develops a-complex is a **geometric** realization of ... A particular piece of the complex disappears at the collection of Voronoi cells ...

[Cited by 44](#) - [Related articles](#) - [All 2 versions](#)

**Computer animation generator**

J Horikawa ... - US Patent 5,963,668, 1999 - Google Patents

... US Patent Oct. ... Further, according to Hugues Hoppe et al., "Mesh Optimization", Computer Graphics Proceedings, Annual Conference **Series**, SIGGRAPH 1993, a ... That is, the conventional method has problems such that application of the shape approximation is limited, a long ...

[Cited by 4](#) - [Related articles](#) - [All 4 versions](#)

**Hierarchical adaptive state machine for emulating and augmenting software**

MC Heimlich ... - US Patent 5,903,886, 1999 - Google Patents

... The present invention defines a method for emulating an iterated process represented by a **series** of related ... US Patent 5,903,886 May 11, 1999 Sheet 14 of 14 o^ RfD o o o D DC LU LU ... provisional 5 representation of the circuit and transforming it into a lower US application Ser. ...

[Cited by 39](#) - [Related articles](#) - [All 2 versions](#)

### Method and apparatus for performing mosaic based image compression

PJ Burt, M Irani, SC Hsu, P Anandan... - US Patent ... 1999 - Google Patents

... Bergen et al., "Hierarchical Model-Based Motion Estimation", Proceedings of European Conference on Computer Vision, Mar. 23, 1992. ... More specifically, the image alignment process automati- This application is a divisional application of patent cally aligns one input image ...

[Cited by 82](#) - [Related articles](#) - [All 2 versions](#)

### User-directed interaction with an image structure map representation of an image

DH Marimont... - US Patent 5,710,877, 1998 - Google Patents

... Ketan Mulmuley, "Randomized Multidimensional Search Trees: Dynamic Sampling," Proceedings of the 7th ACM Symposium on Computational Geometry (SCO.) 1991, pp. ... 132-139. Nahred, A., and Peroche, B., "A 2 1/2-D hierarchical model based on planar maps ... US Patent Jan ...

[Cited by 12](#) - [Related articles](#) - [All 2 versions](#)

### Computer apparatus and method for graphical flip book

KC Knowlton - US Patent 5,283,864, 1994 - Google Patents

... US Patent 5,283,864 Feb. ... used »cons and inter- One rad (cover) of ^ book representation to ^^ face graphics involves the two-dimensional geometry of ition ... representation is open (ie leaves of the first stack half) tion- are displayed overlapping one another in series extend- FIG. ...

[Cited by 75](#) - [Related articles](#) - [All 6 versions](#)

### Data-handling and display system capable of supporting multiple application programs and ou devices

RM Smith, DMT Ting, J Porter... - US Patent 5,212,770, 1993 - Google Patents

... US Patent 5,212,770 May 18, 1993 Sheet 4 of 4 LOCATE ALL VIEWPORTS WITHIN BOUNDARY OF WINDOW, 60 SORT BY PRIORITY ... The undipped portions of Viewports are also opened by the application pro- each viewport are resolved into a series of rectangles by ...

[Cited by 38](#) - [Related articles](#) - [All 2 versions](#)

### Apparatus and method for resource negotiations among autonomous agents

JO Moody, I Glickstein... - US Patent App. 09/740,544, 2000 - Google Patents

... High Level Architecture View and Algorithm Flow Application, Constraints, Parameters and Objectives Strategic Layer Tactical Layer Computational Geometry Hierarchical Clustering Partition environment Assign costs/rewards for resources ... Patent Application Publication Nov. ...

[Cited by 7](#) - [Related articles](#) - [All 4 versions](#)

### Graphs employing clusters

SC North - US Patent 5,450,535, 1995 - Google Patents

... of 10 drawn in the output (see EB Messenger, LA Rowe representing hierarchical or asymmetric ... 876-892, July 1991.) This is a collection of the global layout is also informative ... These publications are hereby incorporated by refer- prior art; ence into the present patent application. ...

[Cited by 35](#) - [Related articles](#) - [All 9 versions](#)

### Detection of lines in images

MI Trifonov, OV Sharonova... - US Patent App. 09/897,736, 2001 - Google Patents

... 382/199 ABSTRACT A method of processing digital image data comprises overlaying a hexon pattern structure on the digital ... of groups of pixels surrounding the central area, the overlaying of the geometric pattern defining a geometric region in ... Patent Application Publication Jan ...

[All 2 versions](#)

Method and apparatus for operating on an object-based model data **structure** to produce a second image in the spatial context of a first image

MC Stone... - US Patent 5,596,690, 1997 - Google Patents

... 26 160 Output Display Circuitry 170 -211 186 —180 -722 Application Operation A V Viewing Operation 720 400 -772 Window ... US Patent 5,596,690 Jan ... response to user signal, produce image definition data defining second image using first image model data **structure** 420 460 ...

[Cited by 39](#) - [Related articles](#) - [All 2 versions](#)

Scatter-gather: a cluster-based method and apparatus for browsing large document collections

JO Pedersen, D Karger, DR Cutting... - US Patent 5,442,778, 1995 - Google Patents

... text search tools, such as similarity the logical **structure** which represents the semantics search, or the search technique described in US patent 50 carried ... A virtual field separator application Ser. ... 3. Here the text collection 20 is an on- "weather", "astronomy" and "civil aviation". ...

[Cited by 100](#) - [Related articles](#) - [All 2 versions](#)

Method and apparatus for performing data **collection**, interpretation and analysis, in an information platform

RD Ainsbury, HK Al Hussein, MC Hinnant... - US Patent ..., 2000 - Google Patents

... 1 1 Specify Tool Document Analyzer /-W , , View Bin View **Geometry** View Multiple ... platform relies upon reliable, pre- H. Pajak, Electronic Library, European Patent Application 60 dictable ... books with data base metaphor, a reference books provides collection agents, which ...

[Cited by 273](#) - [Related articles](#) - [All 2 versions](#)

Method and apparatus for the viewing and exploration of the content of **hierarchical** information

PS Newman... - US Patent App. 09/954,530, 2001 - Google Patents

US 20040205536A1 (19) United States (12) Patent Application Publication (10) Pub. ... FOR THE VIEWING AND EXPLORATION OF THE CONTENT OF **HIERARCHICAL** INFORMATION (75) ... K. Card, Los Altos Hills, CA (US) Correspondence Address: Patent Documentation Center ...

[Cited by 9](#) - [Related articles](#) - [All 4 versions](#)

Computer animation generator creating hierarchies of models for rapid display

J Honkawa... - US Patent 5,774,130, 1998 - Google Patents

... No.: 521,759 [22] Filed: Aug. 31, 1995 [30] Foreign Application Priority Data Sep. 8, 1994 [JP] Japan 6-240646 [51] Int. ... Page 10. US Patent 5,774,130 Jun. 30, 1998 Sheet 9 of 10 O Ix Page 11. US Patent Jim. ... FIGS. 4A and 4B show an example in which the figure of FIG. ...

[Cited by 26](#) - [Related articles](#) - [All 2 versions](#)

Apparatus for and method of calculating lens distortion factor, and computer readable storage medium having lens distortion factor calculation program recorded ...

N Chiba - US Patent App. 09/988,630, 2001 - Google Patents

... Patent Application Publication Aug. ... method, see an article entitled by B. Lucas and T. Kanade, "An Iterative Image Registration Technique with an Application to Stereo ... are made: [0013] When v is very small, the terms of second and higher degrees in Taylor **series** expansion can ...

[All 2 versions](#)

Methods and apparatus for registering CT-scan data to multiple fluoroscopic images

AP Guezlec, P Kazanides... - US Patent 5,951,475, 1999 - Google Patents

... 17 Page 19. US Patent Sep. ... A **hierarchical** volume is built that is used to query the closest point from anatomical surfaces to projection lines. ... FIGS. 7A and 7B depict CT segmentation, and show a slice of the distal femur with artifacts and poor contrast (FIG. ...

[Cited by 96](#) - [Related articles](#) - [All 2 versions](#)

Systems and methods for representing and displaying graphics

ST Potter, M Levine - US Patent App. 09/988,867, 2001 - Google Patents

... Patent Application Publication Aug. ... Various embodiments and features of the present invention

are described, for example, in US Provisional Application No ... General shapes can be represented as vector data by defining the shapes as a **series** of points which **outline** the shape ...

[All 3 versions](#)

### Apparatus and method for controlling allocation of resources and task execution

JO Moody, I Glickstein... - US Patent App: 09/740,418, 2000 - Google Patents

... **Patent** Application Publication Jan. ... Logis- tics is a prime example of one such application, but examples also include process control and flexible manu ... aid for human decision makers or serve as the central nervous system of a completely autonomous collection of cybernetic ...

[Cited by 10](#) - [Related articles](#) - [All 4 versions](#)

### Method and apparatus for generating package geometries

LH Chung, TM Ling, HW Chung... - US Patent App. 10/... - 2001 - Google Patents

... RELATED APPLICATION DATA [0001] This application is a Continuation of US **Patent** Application Ser. ... The information in a package dimension scheme in file 66 includes a **series** of package ... to create graphics or leads (pins) not covered by rules supplied with the application. ...

[All 2 versions](#)

### Intelligent font rendering co-processor

CR Hassett, HJ Collins... - US Patent 5,301,267, 1994 - Google Patents

... INDS APPLY HINTS IF ANY CALCULATE DIFFERENCES: DS-DS DERIVE TRANSFORMATION MATRIX LIST -115 MAP CS→DS APPLY MATRIX LIST TO ANY DESIRED POINT -116 LINEARIZE **OUTLINE** -117 FILL AND RASTERIZE -118 F/G.5 Page 6. US **Patent** Apr. ...

[Cited by 60](#) - [Related articles](#) - [All 8 versions](#)

### Rapid prototyping method

CL Thomas ... - US Patent 5,663,883, 1997 - Google Patents

... US **Patent** Sep. ... In other instances, they may be used as paper method which has particular application in the field of 65 molds from which to ... 9 is a flow diagram illustrating an investment casting erating a **series** of cross sections, slicing the part into many procedure utilizing ...

[Cited by 25](#) - [Related articles](#) - [All 4 versions](#)

### Shape measuring apparatus

H Yamamoto, T Ohehima... - US Patent 5,862,252, 1999 - Google Patents

Page 1. United States **Patent** Yamamoto et al. US005862252A [ii] **Patent** Number: [45] Date of **Patent**: 5,862,252 Jan. ... No.: 778,572 [22] Filed: Jan. 3, 1997 Related US Application Data [62] Division of Ser. No. 300,997, Sep. 6, 1994, Pat. No. 5,748, 865. ...

[Cited by 13](#) - [Related articles](#) - [All 2 versions](#)

### Multipass graphics rendering method and apparatus with re-traverse flag

D Jevans - US Patent 5,561,752, 1996 - Google Patents

... document or the **patent** disclosure, as it appears in the US **Patent** and Trademark ... does not maintain a model database from scene-to- scene, although the application program may ... for visualization of simulations, previewing of animation sequences, or reading a **series** of models ...

[Cited by 42](#) - [Related articles](#) - [All 2 versions](#)

### Producing a rendered image version of an original image using an image **structure** map representation of the image

DH Marimont... - US Patent 5,809,179, 1998 - Google Patents

... that are the subject matter of previously filed, commonly assigned US **patent** applications having the ... The application has the capability to keep color within broken lines, and includes an ... rendered from a vector representation having such problems may not show image regions ...

[Cited by 27](#) - [Related articles](#) - [All 2 versions](#)

### Method for improving accessibility of a computer display

CL Berman - US Patent App. 09/912,380, 2001 - Google Patents

... **Patent** Application Publication Jan. ... [0007] Accessibility refers to the ease with which a user may select among the alternative actions presented by an application. ... 1, there is shown an illustrative web page which will be used to show the process implemented by the present ...

[All 2 versions](#)

### Game program delivery system and apparatus used in same

S Taho, H Akasaka .. - US Patent App 09/774,661, 2001 - Google Patents

Page 1. US 20010029205A1 (19) United States (12) **Patent** Application Publication  
(io> Pub. NO.: US 2001/0029205 Al Taho et al. (43) Pub. Date: Oct. 11,2001 (54 ...  
program. 10 Page 2. **Patent** Application Publication Oct. 11,2001 ...

[All 2 versions](#)

### Computer system with handwriting annotation

BQ Tran - US Patent 6,054,990, 2000 - Google Patents

... 770991 \* ] Notice: This **patent** issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject ... US **Patent** 6,054,990 Apr. 25, 2000 Sheet 3 of 19 ( MAGNIFIER 120 DISPLAY MAGNIFIER AND OUTLINE BOX i 121 SHOW ENLARGED OBJECTS INSIDE ...

[Cited by 9's](#) - [Related articles](#) - [All 3 versions](#)

### Quality control mechanism for three-dimensional graphics rendering

PJ Schneider. ... - US Patent 5,777,621, 1998 - Google Patents

... also can be used easily as or the **patent** disclosure, as it appears in the US **Patent** and a ... StarBase is described in "Star- scene, although the application program may do so. ... two-dimensional) scene on different graphics output sequences, or reading a **series** of models from a file. ...

[Cited by 16](#) - [Related articles](#) - [All 3 versions](#)

### [PDF] Telerobotics Systems using Virtual Environment Display with Visual and Force Display Functions

B Brunner, J Heindl, G Hirzinger .. - Proc. IEEE International ... 1993 - Citeseer

... First we have introduced this new approach with respect to the application areas of time delayed teleoperation and graphical offline robot ... US **Patent** No. ... in: Machine Intelligence and Knowledge Engineering for Robotic Applications, NATO ASI **Series** F33, Springer, Berlin, 1987. ...

[Cited by 2](#) - [Related articles](#) - [View as HTML](#) - [All 6 versions](#)

### Variable latency and bandwidth communication pathways

JA Lambrecht. ... - US Patent 5,935,232, 1999 - Google Patents

... WIPO - OTHER PUBLICATIONS Itano, et al "HIRE: A **Hierarchical** Ring Bus" University of Tsukuba, Japan ... 5000-95700), whose inventor was Alfred C. Hartmann; and US **patent** application Ser ... a component of a system described in this document will be to show multiple instances ...

[Cited by 17](#) - [Related articles](#) - [All 2 versions](#)

### ... and solution **structure** of a renin inhibitor Structural constraints from NOE, and homonuclear heteronuclear coupling constants combined with distance **geometry** ...

MD Reilly, V Thanabal, EA Lunney, JT Repine. ... - FEBS letters, 1992 - Elsevier

... constants were measured directly from spectra that were resolution enhanced by application of a ... Of the eleven structures minimized from the cpos **series**, two structures (cpo29 and cpo236 ... Co., Rockford, IL, 1985, 747750, [6] BOCSta prepared as per US **Patent** 4,650,897. ...

[Related articles](#) - [All 3 versions](#)

### Apparatus and methods for creating and using portable fonts

JS Collins. ... - US Patent 5,577,177, 1996 - Google Patents

... No.: 448,792 [22] Filed: May 24,1995 Related US Application Data [62] Division of ... 395/155, 161, 141, 142, 143, 133 [56] References Cited US **PATENT** DOCUMENTS 4,785,391 ... font description between such description-independent points, and it picks the **outline** order, starting ...

[Cited by 19](#) - [Related articles](#) - [All 8 versions](#)

### [PDF] Structure and formation of the egg capsule tendrils in the dogfish *Scyliorhinus canicula*

D Feng, DP Knight - Philosophical Transactions: Biological Sciences, 1994 - JSTOR

... How collagens self-assemble into complex structures exhibiting order at several **hierarchical** levels (Lakes 1993; Van ... Figure 5. Diagram of a TS of part of a forming tendril to show how canaliculi ... handed twisting of the egg capsule itself about its long axis and the **geometry** of the ...

[Cited by 6](#) - [Related articles](#) - [BL Direct](#) - [All 4 versions](#)

### Method for min-cut and ratio min-cut partitioning

KH Cheng, ... - US Patent App. 09/766,921, 2001 - Google Patents

Page 1. US 2002/0100008A1 (19) United States (12) **Patent** Application Publication (io> Pub.

NO.: US 2002/0100008 AI Cheng et al. (43) Pub. Date: Jul. ... Page 2. **Patent** Application Publication Jul. 25, 2002 Sheet 1 of 18 US 2002/0100008 AI E E • • • Fig. 2 ...

[All 4 versions](#)

### System and method for performing a three-dimensional virtual segmentation and examination

AE Kaufman, Z Liang, MR Wax, M Wan, ... - US Patent ..., 2001 - Google Patents

... A Three Dimensional Virtual Examination," and also claims the benefit of United States Provisional **Patent** Application, Serial No. ... One such application is performing a virtual endo- scopy ... 17 is a perspective view diagram of an intensity vector **structure** including a voxel of interest ...

[Cited by 35](#) - [Related articles](#) - [All 5 versions](#)

### System for automatically generating database of objects of interest by analysis of images recor by moving vehicle

RA Laumeyer, ... - US Patent App. 09/863,816, 2001 - Google Patents

... BACKGROUND OF THE INVENTION [0002] Prior art devices described in the relevant **patent** literature for ... Thus, output signal sets resulting from application of the present method to a segment of ... with ref- erence to one or more preferred embodiments wherein a **series** of image ...

[Cited by 16](#) - [Related articles](#) - [All 4 versions](#)

### Magnetic bearing systems

DW Lewis, RR Humphris, EH Maslen, ... - US Patent ..., 1994 - Google Patents

... No. 07/359,772 now abandoned, filed May 31, 5 1989, which is a continuation-in-part of US **patent** application Ser. ... 1. The rotor includes a multiplicity of masses distributed along a flexible shaft, or in some designs, the flexible shaft is replaced by a **series** of equivalent rings or ...

[Cited by 23](#) - [Related articles](#) - [All 2 versions](#)

### Method and apparatus for rapidly determining whether a digitized image frame contains an obje interest

RA Laumeyer, ... - US Patent App. 09/772,191, 2001 - Google Patents

... BACKGROUND OF THE INVENTION [0002] Prior art devices described in the relevant **patent** literature for ... Thus, output signal sets resulting from application of the present method to a segment of ... with ref- erence to one or more preferred embodiments wherein a **series** of image ...

[Cited by 12](#) - [Related articles](#) - [All 4 versions](#)

### Mechanism for rendering scenes using an object drawing subsystem

D Jevans - US Patent 5,995,667, 1999 - Google Patents

... **Patent** disclosure as it appears in the US **Patent** and Trademark Office **patent** file or ... not maintain a model database from scene-to- 45 scene, although the application program may ... for visualization of simulations, previewing of animation sequences, or reading a **series** of models ...

[Cited by 25](#) - [Related articles](#) - [All 2 versions](#)

### Method and apparatus for generating a database of road sign images and positions

RA Laumeyer, ... - US Patent App. 09/812,753, 2001 - Google Patents

... BACKGROUND OF THE INVENTION [0002] Prior art devices described in the relevant **patent** literature for ... Thus, output signal sets resulting from application of the present method to a segment of ... with ref- erence to one or more preferred embodiments wherein a **series** of image ...

[Cited by 11](#) - [Related articles](#) - [All 4 versions](#)

### System and method for performing a three-dimensional examination with collapse correction

AE Kaufman, Z Liang, MR Wax... - ... Patent App. 09/974,569, 2001 - Google Patents

... **Patent** Application Publication Apr. ... DETAILED DESCRIPTION [0051] While the methods and systems described in this application can be applied to any object to be ... Voxel data representing an object can be derived from a **geometric** model by techniques described in US Pat. ...

[Cited by 16](#) - [Related articles](#) - [All 4 versions](#)

### Satellite camera attitude determination and image navigation by means of earth edge and landr measurement

AA Kamel... - US Patent 6,023,291, 2000 - Google Patents

... 10 The disclosure of this Provisional **Patent** Application is incorporated by reference herein in its ... is a function of roll misalignment and pitch misalignment, weighted by a **geometric** factor depend ...  $3 = \langle (-1)^{9 \setminus i} \rangle ma, 9ma$  can therefore be represented as a time **series** as follows: ? ...

[Cited by 13](#) - [Related articles](#) - [All 4 versions](#)

### Perceptual method for browsing, searching, querying and visualizing collections of digital image

A Mojsilovic... - US Patent App. 10/033,597, 2001 - Google Patents

... ^ 1 1 T ^ 8 i ^ « « Page 6. **Patent** Application Publication Jul. 3, 2003 Sheet 5 of 9 US 2003/0123737 AI USER SELECTS IMAGE COLLECTION, DATABASE OR , DIRECTORY, ETC. TO BE SEARCHED i USER SUPPLIES QUERY ...

[All 2 versions](#)

### Automated re-layout with dimensional associativity

OA Hirt Jr, NH MacNeil... - US Patent 5,297,241, 1994 - Google Patents

... US **Patent** Mar. ... workstation 140, whose princi- solid lines, show all edges with visible as solid lines and hidden as dashed lines, or show all edges ... pro- gresses rapidly because the views are initially depicted 60 in **outline** form so there is little time lost in redrawing the **geometry**. ...

[Cited by 27](#) - [Related articles](#) - [All 3 versions](#)

### Method and apparatus for producing a composite second image in the spatial context of a first image

MC Stone, EA Bier, KP Fishkin... - US Patent 5,479,603, 1995 - Google Patents

... t f k Image Data M odel Data > 840 / Procedure Library (Instruction and Model Data) \_ ^ ^ Fig.28 850 Application Operation (Instruction ... US **Patent** 5,479,603 Dec ... Sheet 18 of 19 Image Definition Data 816 .1. Create Image Definition Data, Display 804 Graphics Data **Structure** 814 1 ...

[Cited by 44](#) - [Related articles](#) - [All 3 versions](#)

### Design engine for fitting content to a medium

JD King, G Von Limbach, MB McDonald... - US Patent ... 1999 - Google Patents

... 11, 1994, viI nk27, p. 33(1). European Paten O&ice, **Patent** Cooperation Treaty Interna- tional Preliminary Examination Report" May 12, 1998; International application No. PCT/US97/15660. Page 3. US **Patent** 5,956,737 Sep. 21, 1999 Sheet 1 of 47 FIG. ...

[Cited by 64](#) - [Related articles](#) - [All 4 versions](#)

### Method of generalized content-scalable shape representation and coding

RJ Qian... - US Patent 6,011,872, 2000 - Google Patents

... US **Patent** 6,011,872 Jan. ... shape recognition include methods such as that used in the WebSEEK program, which searches 30 a collection of computer ... In a spatially-scalable coding application, the decoder reconstructs a spatially lower resolution of the video objects, and hence ...

[Cited by 8](#) - [Related articles](#) - [All 4 versions](#)



Multisite coordination in shared multicast trees

JJ Garcia-Luna-Aceves, ... - US Patent App. 09/892,708, 2001 - Google Patents

... **Patent** Application Publication Mar. ... CROSS-REFERENCE TO RELATED APPLICATIONS [0001]

This application claims priority from US provisional application serial No ... coordination in relation to face-to-face meetings has been studied, and those studies show that greediness ...

[Related articles](#) - [All 3 versions](#)Design engine for automatic layout of content

MB Orr, KS Brintzenhofe, JD King, ... - US Patent ... 1999 - Google Patents

... User Interface 18' Layout 39 30 Application Program FIG. ... **US Patent** 5,895,477 Apr. 20, 1999

Sheet 9 of 47 fCaptiontex V (Outline) X Pull Quote (Product Body YMemo"to" LineJ ( Tagline I

NL Banner Reduced ( Kicker Body Y XMemo "From" Line NL Banner Center JL Banner Toj ...

[Cited by 37](#) - [Related articles](#) - [All 3 versions](#)Describing scales of features in river channels using fractal geometry concepts

J Nestler, ... - Regulated Rivers: Research &amp; ... 2000 - interscience.wiley.com

... a scale of about 480 m that conveys most of the flow and a collection of much ... Application of these tools to a Missouri River cross section demonstrates their ability to detect ... USA Patents and Trademarks Office **Patent** Numbers 5,790,434 and 5,913,179 have been awarded to the ...[Cited by 17](#) - [Related articles](#) - [BL Direct](#) - [All 3 versions](#)Multiple-image viewer

JA Munro - US Patent App. 09/757,561, 2001 - Google Patents

... **Patent** Application Publication Mar. ... In one embodiment, multiple-image viewer 102 displays and enables manipulation of multiple images through the use of a web-based application. ... 0040] The multiple-image viewer allows for images to be comprised of a **hierarchical** system of ...[All 2 versions](#)Script/binary-encoded-character processing method and system with moving space insertion m

MD Forcier - US Patent 5,220,649, 1993 - Google Patents

Page 1: US005220649A United States **Patent** [19] Forcier [ii] **Patent** Number: [45] Date of **Patent**: 5,220,649 Jun. ... 94598 [21] Appl. No.: 693,316 [22] Filed: Apr. 29, 1991 Related US Application Data [63] Continuation-in-part of Ser. No. 673,292, Mar. 20, 1991. [51] Int. ...[Cited by 164](#) - [Related articles](#) - [All 6 versions](#)Encoding and progressive transmission of progressive meshes

HH Hoppe - US Patent 5,963,209, 1999 - Google Patents

... **Patent** Hoppe US005963209A [ii] **Patent** Number: [45] Date of **Patent**: 5,963,209 Oct. ... et al., "Spherical Wavelets," Computer Graphics Proceedings, Annual Conference **Series**, 161-172 ... Varshney, **Hierarchical Geometric** Approximations, University Microfilms International (1994 ...[Cited by 25](#) - [Related articles](#) - [All 3 versions](#)METHOD AND APPARATUS FOR ANALYZING AN IMAGE TO DIRECT AND IDENTIFY PATTERNS

GJ Vachtsevanos, J Echaz, M Muftic, ... - US Patent App. 09/ ... 1999 - Google Patents

... **Patent** Application Publication May 9, 2002 Sheet 15 of 15 US 2002/0054694 A1 Image ... [0022]Product characterization is another very important application area of ... At May 9, 2002 It provides the essential framework for the completely localized and **hierarchical** training afforded ...[Cited by 52](#) - [Related articles](#) - [All 4 versions](#)Polymorphic graphic device

JG Harris - US Patent 5,394,523, 1995 - Google Patents

Page 1: US005394523A United States **Patent** [9] Harris [ii] **Patent** Number: [45] Date of **Patent**:5,394,523 Feb. 28, 1995 [54] POLYMORPHIC GRAPHIC DEVICE [75] Inventor: Jerry G. Harris, Sunnyvale, Calif. ... Page 2: US **Patent** 5,394,523 Feb. 28, 1995 Sheet 1 of 23 OLL Page 3. ...

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### System and method of registration of three-dimensional data sets including anatomical body da

WEL Grimson, SJ White, GJ Ettinger... - US Patent ... 1996 - Google Patents

... Stanford University, Working Notes—AAA1 Spring Symposium Series "Symposium: Application of Computer ... color photo- graphs will be provided by the United States Patent and Trademark ... generated using coarse resolution data and then refined using a series of optimization ...

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### Design engine for automatic reformatting for design and media

MB Orr, KS Brinzenhofe, JD King... - US Patent ... 1999 - Google Patents

... WIPO . OTHER PUBLICATIONS European Patent Office. "Patent Cooperation Treaty International Preliminary Examination Report," May 12, 1998; International application No. PCT/US97/15660, Expansion Plans Private Ventures; Pages Software; Sep. 1994; p. 29. ...

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AE Kaufman, Z Liang, MR Wax... - Patent App. 09/974,548, 2001 - Google Patents

... Patent Application Publication Apr. ... DETAILED DESCRIPTION [0051] While the methods and systems described in this application can be applied to any object to be ... Voxel data representing an object can be derived from a geometric model by techniques described in US Pat. ...

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### Method and apparatus for composing layered synthetic graphics filters

EA Bier - US Patent 6,072,501, 2000 - Google Patents

... Proceedings of SIGGRAPH '93 (Anaheim, CA, Aug.), Computer Graphics Annual Conference Series, ACM, 1993, pp. ... LAYERED SYNTHETIC GRAPHICS FILTERS CROSS-REFERENCE TO RELATED 5 APPLICATION Cross-reference is made to US patent application Ser. ...

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### Hierarchical control point editing of adaptively sampled distance fields

RN Perry... - US Patent App. 09/810,841, 2001 - Google Patents

... Patent Application Publication Sep. ... 19, 2002 HIERARCHICAL CONTROL POINT EDITING OF ADAPTIVELY SAMPLED DISTANCE FIELDS FIELD OF THE INVENTION [0001] The invention relates generally to the field of computer ... Dynamic NURBS with geometric constraints for ...

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### Mesh simplification and construction of progressive meshes

HH Hoppe - US Patent 5,929,860, 1999 - Google Patents

United States Patent Hoppe US005929860A [ii] Patent Number: [45] Date of Patent: 5,929,860 Jul. ... 7, 1997 Related US Application Data [63] Continuation of application No. ... Hoppe et al., "Mesh Optimization," Computer Graphics Proceedings, Annual Conference Series, 19-26 ...

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### Programmable computer graphic objects

E Geyer, N Hermoni, O Bergman, G Tayar... - US Patent ... 2001 - Google Patents

... Ben-Shemen, all of (IL) (73) Assignee: Zapa Digital Arts Ltd., Tel Aviv (IL) ( \* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 USC 154(b) by 0 days. (21) Appl. No.: 08/819,607 (22) Filed: Mar. 14, 1997 Related US Application Data (60 ...

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### Method and apparatus for document element classification by analysis of major white region geometry

M Ozaki - US Patent 5,574,802, 1996 - Google Patents

... The method for logically identifying the document elements in the document image using structural models comprises identifying the major white regions in the document image, using **geometric** relationships between the major white regions in the ... US Patent 5,574,802 Nov. ...

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### Rapid product realization from detail design

SE Samra, S Schofield, J Stori, J MacFarlane ... - Computer-Aided ... , 1996 - Elsevier  
... Visualization is carried out through the PHIGS application 'See' provided by Noodles. ... and openness of the MOSAICPM system have been demonstrated with a **series** of experiments ... apparatus for determining position and orientation of mechanical objects' US Patent Application ...

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### Distance based constraints for adaptively sampled distance fields

RN Perry ... - US Patent App. 09/810,974, 2001 - Google Patents  
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... Proceedings of SIGGRAPH '93 (Anaheim, CA, Aug.), Computer Graphics Annual Conference Series, ACM, 1993, pp ... FILTERS WITH LIMITED SCOPES OF OPERATION CROSS-REFERENCE TO RELATED 5 APPLICATION Cross-reference is made to US **patent** application Ser ...

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JS Kresge, DN Light ... - US Patent 5,574,630, 1996 - Google Patents  
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DH Marimont ... - US Patent 5,751,852, 1998 - Google Patents  
... 291, 293.305.306.308.309.312 References Cited US **PATENT** DOCUMENTS 4,490,848 12/1984 Beall et al ... B., "A 21/2-D Hierarchical model based on planar maps". ... vertex values using a rounding operation that mathematically ensures topological and **geometric** consistency ...

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### User interface system having programmable user interface elements

IS Small, M Chen, EL Zarakov, RL Mander ... - US Patent ... , 1999 - Google Patents  
... [73] Assignee: Apple Computer, Inc., Cupertino, Calif. [ \* ] Notice: This **patent** is subject to a terminal disclaimer. [21] Appl. No.: 08/294,242 [22] Filed: Aug. 22, 1994 [51] [52] [53] [56] Related US Application Data Continuation-in-part of application No. 07/940,237, Sep. ...

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### System and method for converting range data to 3D models

RN Perry ... - US Patent App. 09/809,682, 2001 - Google Patents

... Page 18. **Patent** Application Publication Sep. ... It is important to note, however, that scanned models can provide good first order approximations to the **geometry** of the clay maquettes that can then be enhanced by a computer-based modeling system. ...

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### System and method for sculpting digital models

RN Perry ... - US Patent App. 09/810,261, 2001 - Google Patents

... BDT Generator Sht mm Generation — parameters 135- 104 Local regeneration (tool path + **geometry**) 14S1 132 \*--Edit parameters -i ^ \* Editor f-- Tool path -< 9 ~ Sc (tool f ript ' jathsj 142 151 136- Refine edits '112 10 Idle Processor: -Refine ... **Patent** Application Publication Sep ...

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### Geomorphs and variable resolution control of progressive meshes

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United States **Patent** Hoppe US005966133A [ii] **Patent** Number: [45] Date of **Patent**: 5,966,133 Oct. ... 7, 1997 Related US Application Data [63] Continuation of application No. ... Hoppe et al., "Mesh Optimization," Computer Graphics Proceedings, Annual Conference **Series**, 19-26 ...

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### Method, system and apparatus for constructing fully personalized and contextualized interaction environment for terminals in mobile use

K Kautio-Koivula, M Huhtaniemi ... - US Patent App. 10/ ... , 2001 - Google Patents

Page 1. US 20030117436A1 (19) United States (12) **Patent** Application Publication (io> Pub.

NO.: US 2003/0117436 A1 Kautio-Koivula et al. (43) Pub. Date: Jun. ... Page 2. **Patent** Application Publication Jun. 26, 2003 Sheet 1 of 94 US 2003/0117436 A1 g o Page 3. ...

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### Conversion of adaptively sampled distance fields to triangles

RN Perry ... - US Patent App. 09/810,839, 2001 - Google Patents

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M Hearst - 1994 - eecs.berkeley.edu

... describes an algorithm that automatically derives these categories from an existing **hierarchical** lexicon ... helps users become familiar with the topics and terminology of an unfamiliar text collection. ... but approximate, scalable but error-prone, in the hopes that their application to the ...

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### Examples of successful crystal structure prediction: polymorphs of primidone and progesterone

RS Payne, RJ Roberts, RC Rowe ... - International journal of ... 1999 - Elsevier

... Observations related to the application of the **structure** prediction process are reported. ... which was obtained from a laboratory instrument (Siemens D5000 using Bragg-Brentano **geometry**). ... These show excellent agreement, having the same hydrogen bonding pattern, but in the ...

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### Surface Following interaction method for adaptively sampled distance fields

RN Perry ... - US Patent App. 09/810,951, 2001 - Google Patents

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(io> Pub. NO.: US 2002/0130878 A1 Perry et al. (43) Pub. Date: Sep. 19, 2002 (54 ... object. Page 2. **Patent** Application Publication Sep. 19, 2002 ...

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Parallel object-oriented, denoising system using wavelet multiresolution analysis

C Kamath, CH Baldwin, IK Fodor... - Patent App. 09/877,962, 2001 - Google Patents  
 ... ORI- ENTED DECISION TREE SYSTEM," by Chandrika Kamath and Erick Cantu-Paz, **patent**  
 application No. .... In the past, data was stored in flat files, then **hierarchical** and network data ... thus  
 the efficient discovery of valuable, non-obvious information from a large collection of data ...

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Three-dimensional CAD system and recording medium for three-dimensional CAD system

Y Yoshida... - US Patent App. 09/797,003, 2001 - Google Patents  
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 a three-dimen- sional CAD (three-dimensional computer aided design: 3D-CAD) system,  
 particularly to a three-dimensional CAD system applying a basic **geometric** theory called ...

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A feature-based approach towards an integrated product model including conceptual design information

G Brunetti... - Computer-Aided Design, 2000 - Elsevier  
 ... clarification of the design task to be performed and involves the collection of information ... is  
 supported by creative methods (eg brainstorming or method 635), conventional methods (**patent**  
 searches, etc ... The feature model is built by application specific features like a screw hole or ...

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Property estimation of an integrated circuit

GA Allan - US Patent 6,066,179, 2000 - Google Patents  
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 "Hierarchical Critical Area Extraction with the EYE tool", IEEE Workshop on Defect ...

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WC Priest - US Patent 5,167,011, 1992 - Google Patents  
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 ITEMS NO V r (330 SHOW CATEGORY SELECTIONS, NUMBER OF ITEMS, AND ...

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Charged-particle-beam microlithography methods including chip-exposure sequences for reduc thermally induced lateral shift of exposure position on the ...

T Okino, T Fujiwara... - US Patent App. 09/795,258, 2001 - Google Patents  
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Method for correcting an adaptively sampled distance field

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 interactive sculpting," ACM Transactions On Graphics, 13(2), pp. 103- 136, 1994. ... For these reasons,  
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[BOOK] Understanding the manufacturing process: key to successful CAD/CAM implementation

J Harrington - 1984 - books.google.com  
 ... I cut a piece of plywood of the right thickness to the exact convoluted **outline** needed to ... When  
 manufacturing was still an art, or rather a collection of very different arts, each had its ... the key to

understanding the science, and understanding is the key to profitable application of the ...


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**[PDF] Software Litigation in the Year 2000: The Effect of Object-Oriented Design Methodologies  
Traditional Software Jurisprudence**

DM Barkan - Berkeley Technology Law Journal, 1992 · law.berkeley.edu

... Finally, Part VI considers the potential effects that copyright and **patent** protection would have on the ... the top-down approach forces programmers to think in terms of a **series** of single ... This inheritance concept can be easily applied to the **structure** of the QuadWorld application. ...

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